



CRYOGENIC TANK SERVICES (CTS) MULTI-PORT MANIFOLDS

BASIC OPERATING INSTRUCTIONS

All our SS manifolds come with full pressure test certificates. The test certificate shows the maximum pressure the unit can safely be used at. **This pressure must NEVER be exceeded.**

Manifolds come with SS 316 valves on each port. The valves are normally 10,000 P.S.I., 20,000 P.S.I. or 30,000 P.S.I. on instrument manifolds.

It is imperative that the valves are treated with the utmost respect. Valves should only be turned on and off manually. (DO NOT USE SPANNERS)

Each port except the gauge port and pressure relief valve port has SS 316 adaptors for connection of hose assemblies.

It is very important NOT to over tighten the female fitting on the hose to this adaptor. When a hose fitting is over tightened, this potentially stretches the threads exposing the user to the risk of personal danger.

The gauge port has a fitting SS 316 ½" B.S.P. The gauge has a nipple on the bottom of the thread. A dowty seal or copper washer should be used at the bottom of the gauge adaptor. The gauge should be installed with care and gently tightened with an appropriate spanner.

Installation of a Manifold into a test:

1. Connect all hose assemblies to the manifold; do not tighten with a spanner at this moment.
2. Connect the gauge to the gauge port; do not tighten at this time.
3. Close all valves then slightly open all valves being used in the test.
4. Gently pulse the pump making sure that you are not producing a pressure. Water should now be showing at all the hose ports used and also the gauge port.
5. Gently tighten the gauge until the water stops dripping; do not over tighten.
6. Each hose fitting should now be tightened until the water stops dripping; do not over tighten.
7. The manifold should now be ready for a pre test. Close the valve to the piece you are testing. The pressure can now be applied.